

WHAT IS CLAIMED IS:

1. An image reading device for use with a host apparatus having a monitor screen, the image reading device comprising:

5 an illumination device to illuminate an original;

an image reading device coupled to the illumination device, the image reading device photo-electrical converting light from the original and  
10 outputting an image signal;

a moving device to move at least one of the original and the image reading device;

a data generation device to generate index display image data by receiving the output from the image  
15 reading device;

a size data obtaining device to obtain size data of the monitor screen of the host apparatus; and

a control device coupled to the image reading device, the control device setting a reading resolution based on a relationship between a number of  
20 frames to be index displayed and the size data of the monitor screen, and to cause the image reading device to execute conversion operation with the set reading resolution.

25 2. An image reading device for use with a host apparatus having a monitor screen, the image reading device comprising:

an illumination device to illuminate an original;

30 a display color obtaining device to obtain a number of display colors for the monitor screen of the host apparatus;

an image reading device coupled to the illumination device, the image reading device photo-electric converting light from the original and  
35 outputting an image signal;

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a control device coupled to the image reading device, the control device controlling the image reading device for executing a conversion operation to the image signals with a number of display colors that is consistent with the number of display colors obtained by the display color obtaining device.

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                generating index display image data by
receiving output from the image reading device;

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setting a reading resolution based on the relationship between the number of frames to be index displayed and the size data of the monitor screen; and

4. A storage medium that stores a control process for an image reading device, the image reading device comprising an illumination device to illuminate an original; a display color obtaining device to obtain a number of display colors for a monitor screen of a host apparatus; an image reading device photo-electric converting light from the original and outputting an image signal; and a moving device to move at least one of the original and the image reading device, wherein the control process comprises:

causing the image reading device to execute a conversion operation to the image signals with a number of display colors that is consistent with the number of display colors obtained by the display color obtaining device.

5           5. An image reading device for use with a host apparatus having a monitor screen, the image reading device comprising:

10           illumination means for emitting light, the illumination means illuminating an original;

          image reading means for photo-electric converting light from the original and outputting an image signal;

15           moving means for moving at least one of the original and the image reading means;

          data generation means for generating index display image data by receiving the output from the image reading means;

20           size data obtaining means for obtaining size data of the monitor screen of the host apparatus; and

          control means for setting a reading resolution based on a relationship between a number of frames to be index displayed and the size data obtained from the monitor screen.

25           6. The image reading device of claim 5, wherein the image reading means outputting the image signal by scanning in a main scanning direction, and said moving means moving at least one of the original and the image reading means in a subscanning direction which intersects  
30           with the main scanning direction.

          7. The image reading device of claim 5, wherein the image reading means executes a conversion operation with the set reading resolution.

35           8. The image reading device of claim 5, wherein the original includes a plurality of memory regions, and the image reading means converts an image in each of the image memory regions of the original to the image signal.

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9. The image reading device of claim 5, further comprising display color obtaining means for obtaining a number of display colors for the monitor screen of the host apparatus.

5 10. The image reading device of claim 9, wherein the image reading means executes a conversion operation to the image signal with a number of display colors that is consistent with the number of display colors obtained by the display color obtaining means.

10 11. The image reading device of claim 5, further comprising a storage medium that stores at least one control process for the image reading means.

15 12. The image reading device of claim 5, further comprising a color separating means that chromatically separates the image of the original.

13. An image reading device for use with an original and a host apparatus having a monitor screen, the image reading device comprising:

20 illumination means for emitting light, the illumination means illuminating the original;

display color obtaining means for obtaining a number of display colors for the monitor screen of the host apparatus;

25 image reading means for photo-electric converting light from the original and outputting an image signal;

moving means for moving at least one of the original and the image reading means; and

30 control means for causing the image reading means to execute a conversion operation to the image signals with a number of display colors that is consistent with the number of display colors obtained by the display color obtaining means.

35 14. The image reading device of claim 13, wherein the image reading means outputting the image signal by scanning in a main scanning direction, and the moving means moving at least one of the original and the

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image reading means in a subscanning direction which intersects with the main scanning direction.

15. The image reading device of claim 14, further comprising a storage medium which stores a control process, said control process comprising:

generating index display image data by receiving output from the image reading means;

obtaining size data of the monitor screen of the host apparatus; and

10 setting a reading resolution on the monitor screen of the host apparatus based on a relationship between a number of frames to be index displayed and the size data of the monitor screen.

15 16. The image reading device of claim 15, wherein the storage medium further comprises a control processor to cause the image reading means to execute a conversion operation to the image signal with a number of display colors that is consistent with the number of display colors obtained by the display color obtaining means.

20 17. A method of reading an original, an image of the original being displayed on a monitor screen of a host apparatus, the method comprising:

25 emitting light for illuminating the original;

photo-electric converting light from the original;

outputting an image signal;

30 generating index display image data by receiving the image signal;

obtaining size data of the monitor screen of the host apparatus; and

35 setting a reading resolution based on a relationship between a number of frames to be index displayed and size data obtained from the monitor screen.

18. The method of claim 17, wherein the photo-electric converting includes converting an image in each

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of the image memory regions of the film original to the image signal.

19. The method of claim 17, further comprising obtaining a number of display colors of the monitor screen of the host apparatus.

20. A method of reading an original, an image of the original being displayed on a monitor screen of a host apparatus, the method comprising:

obtaining a number of display colors for the monitor screen of a host apparatus;  
photo-electric converting light from the original;

outputting image signals; and  
executing a conversion operation to the image signal with a number of display colors that is consistent with the number of obtained display colors.

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